Fig. 1

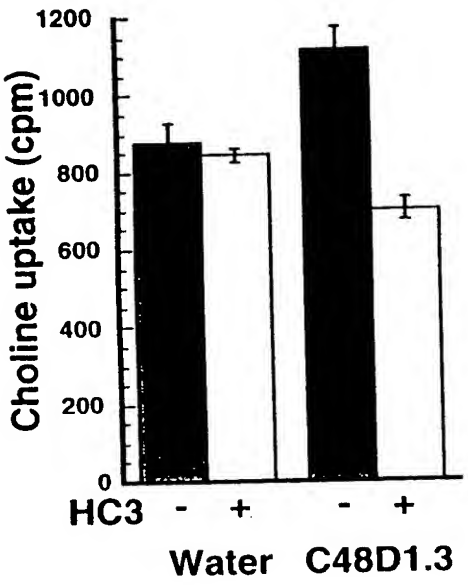
1200
1000
800
600
400
200
0
Choline uptake (cpm)
HC3 - + - +
Water C48D1.3

Fig. 2

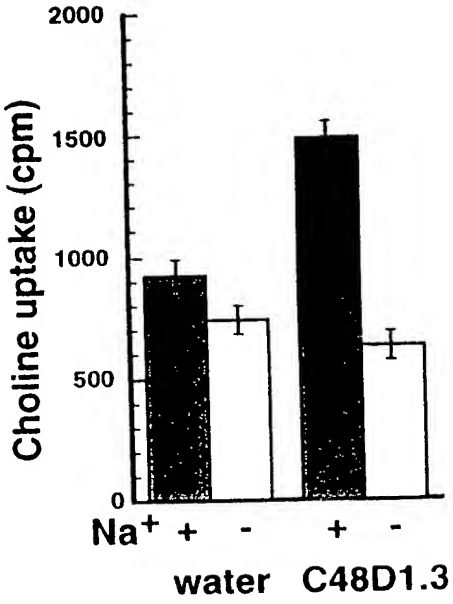
2000
1500
1000
500
0
Choline uptake (cpm)
Na+ + - + -
water C48D1.3

Fig. 3

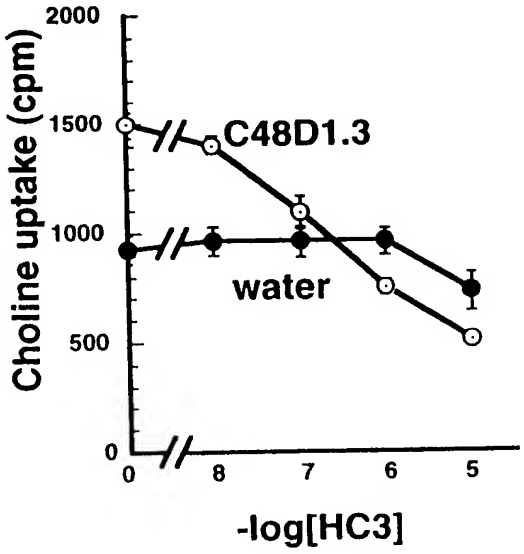
Choline uptake (cpm)
2000
1500
1000
500
0
C48D1.3
water
0
8
7
6
5
-log[HC3]

Fig. 4

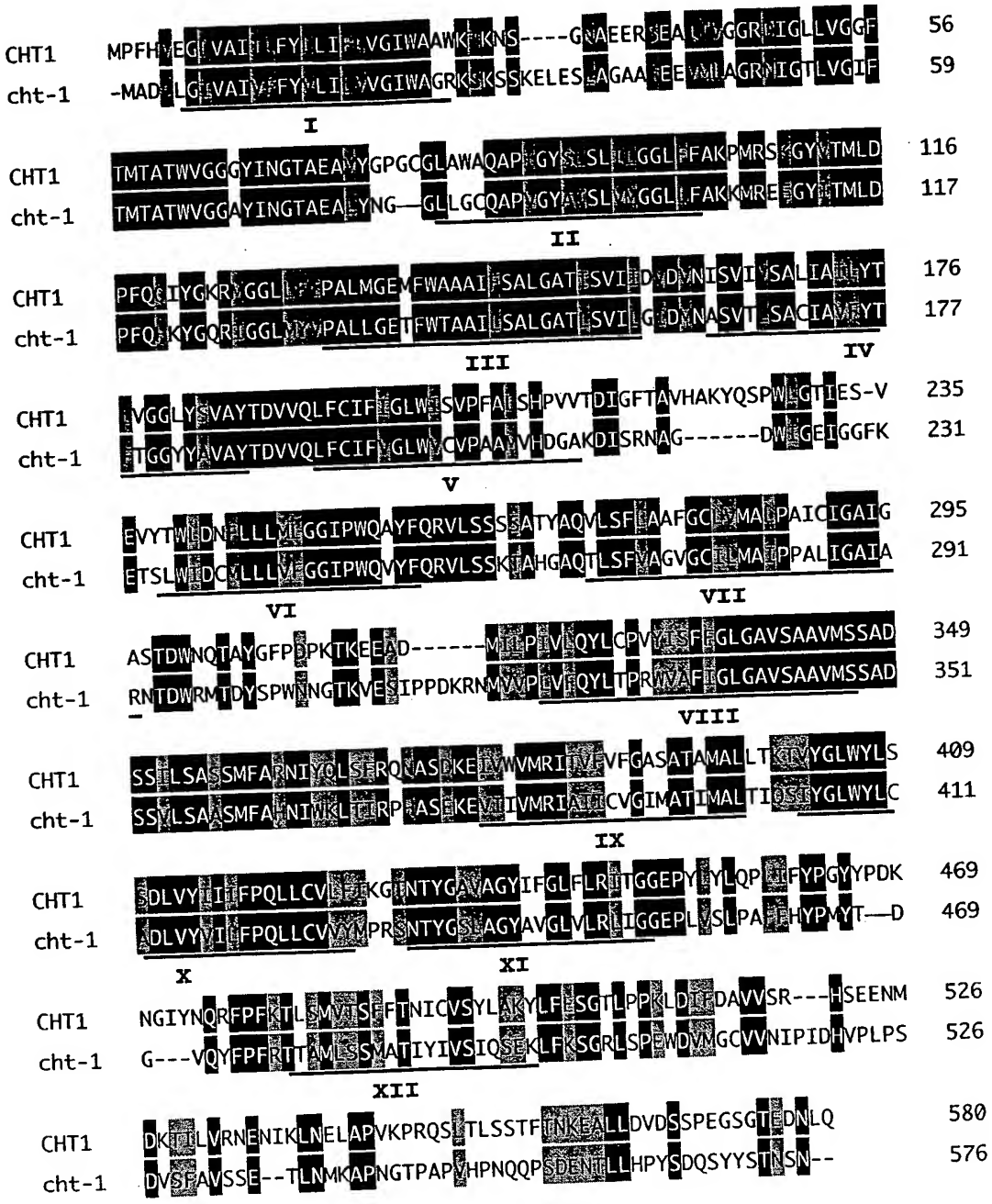

Fig. 5

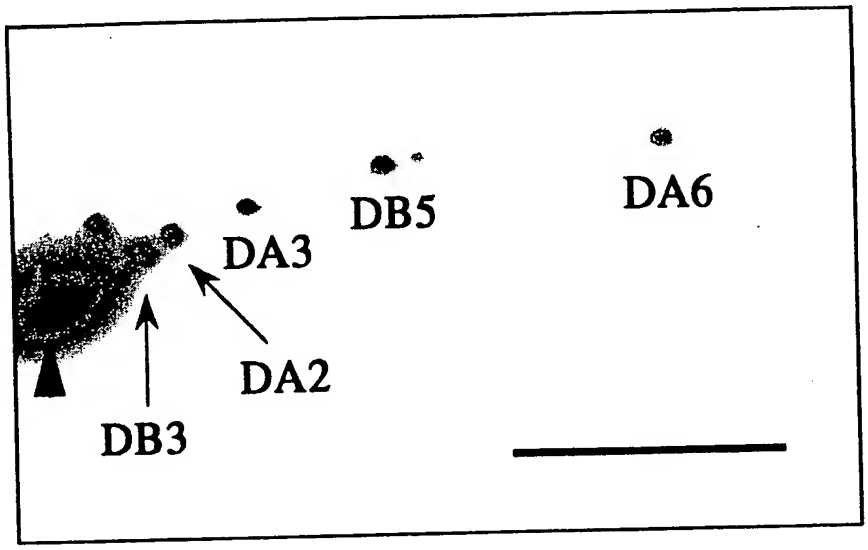
DA6
DB5
DA3
DA2
DB3

Fig. 6

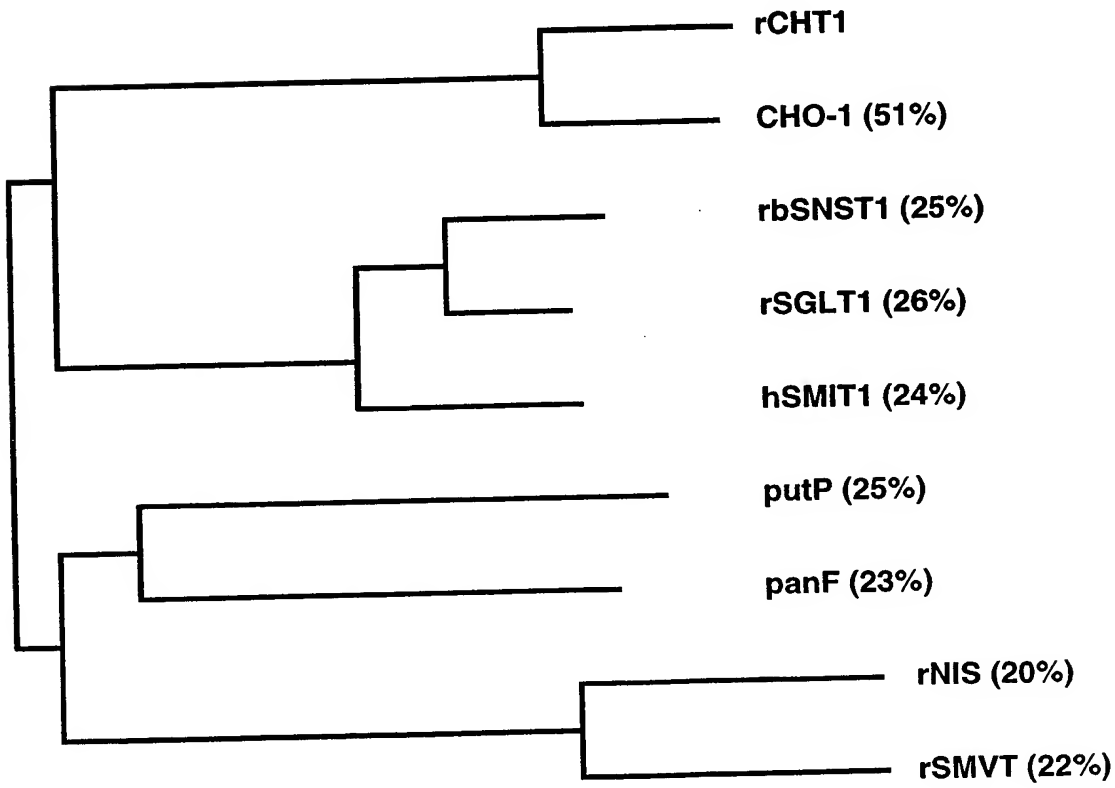
rCHT1
CHO-1 (51%)
rbSNST1 (25%)
rSGLT1 (26%)
hSMIT1 (24%)
putP (25%)
panF (23%)
rNIS (20%)
rSMVT (22%)

Fig. 7

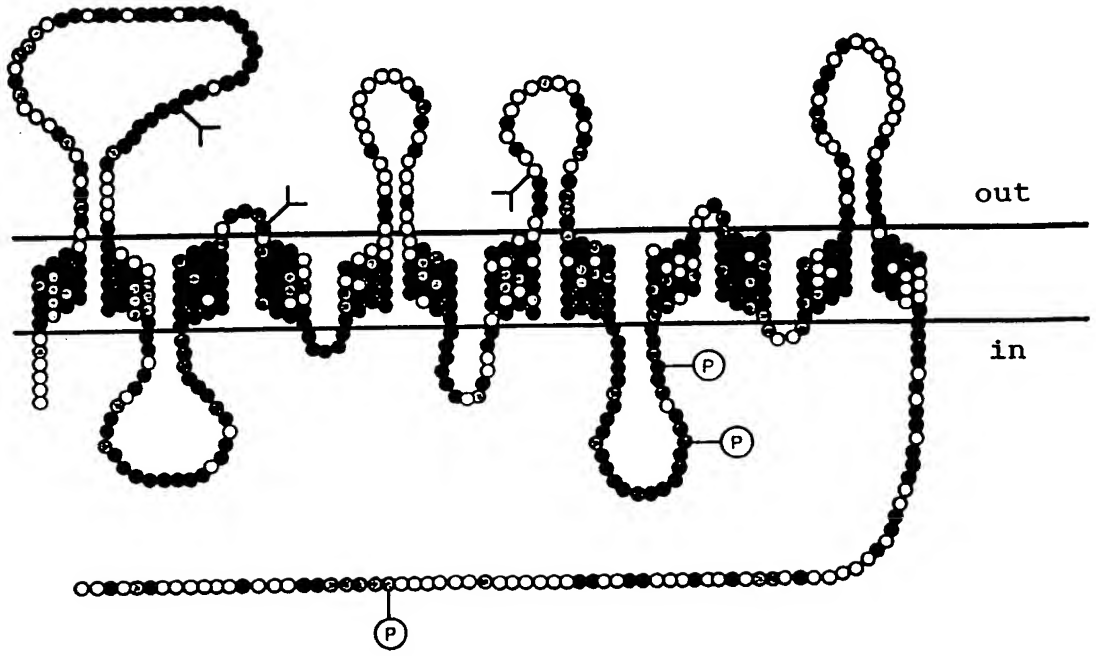
out
in
P
P
P

Fig. 8

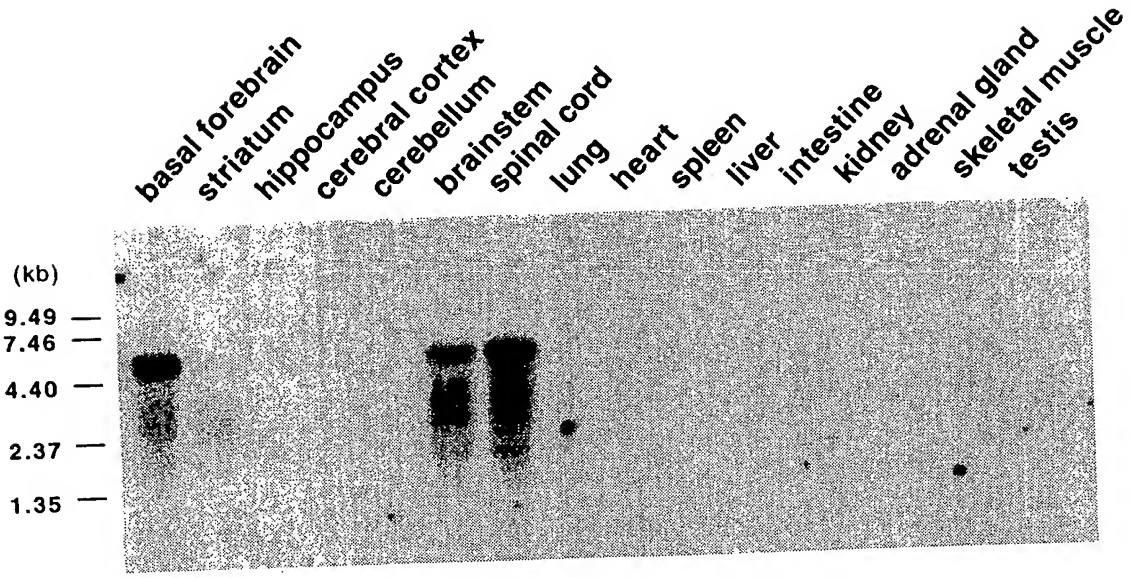
basal forebrain
striatum
hippocampus
cerebral cortex
cerebellum
brainstem
spinal cord
lung
heart
spleen
liver
intestine
kidney
adrenal gland
skeletal muscle
testis
(kb)
9.49
7.46
4.40
2.37
1.35

Fig. 9

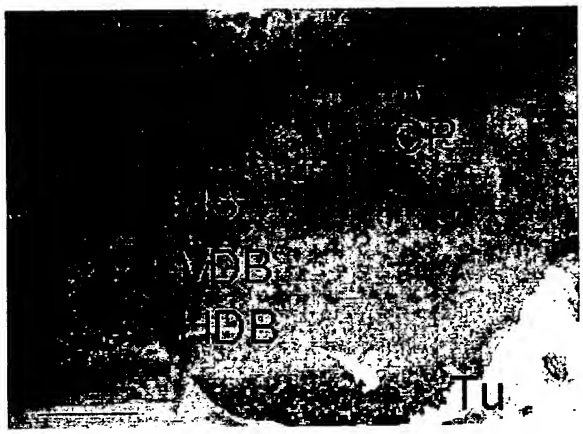

Fig. 10

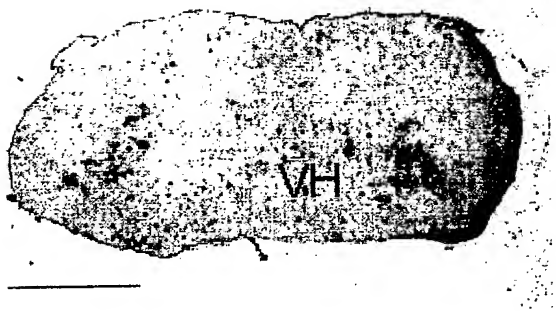

Fig. 11

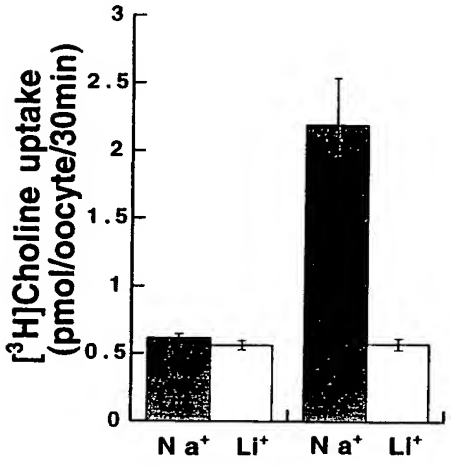
[3H]Choline uptake
(pmol/oocyte/30min)
3
2.5
2
1.5
1
0.5
0
Na+
Li+
Na+
Li+

Fig. 12

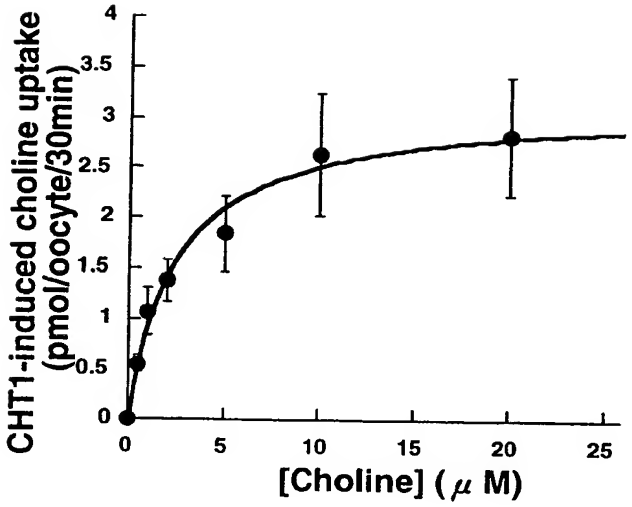
CHT1-induced choline uptake
(pmol/oocyte/30min)
4
3.5
3
2.5
2
1.5
1
0.5
0
0
5
10
15
20
25
[Choline] (μ M)

Fig. 13

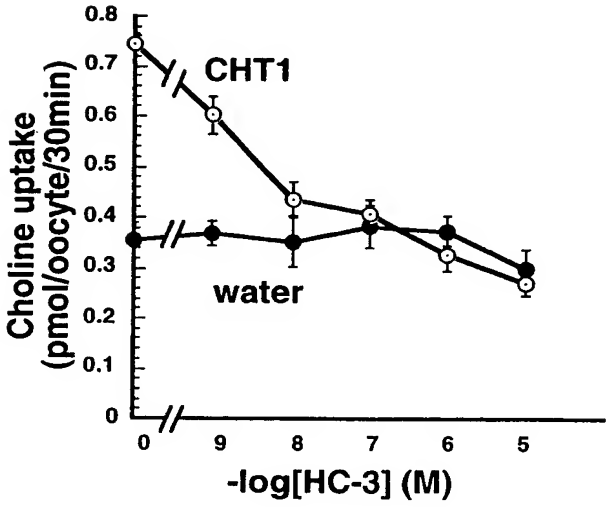

Fig. 14

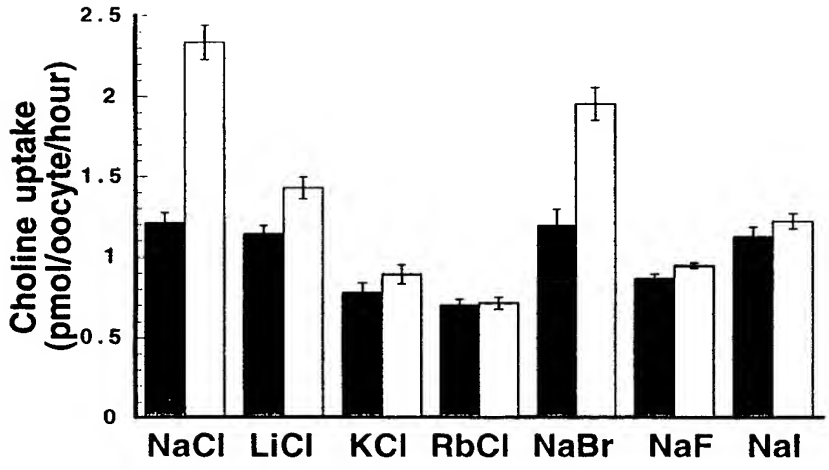

Fig. 15

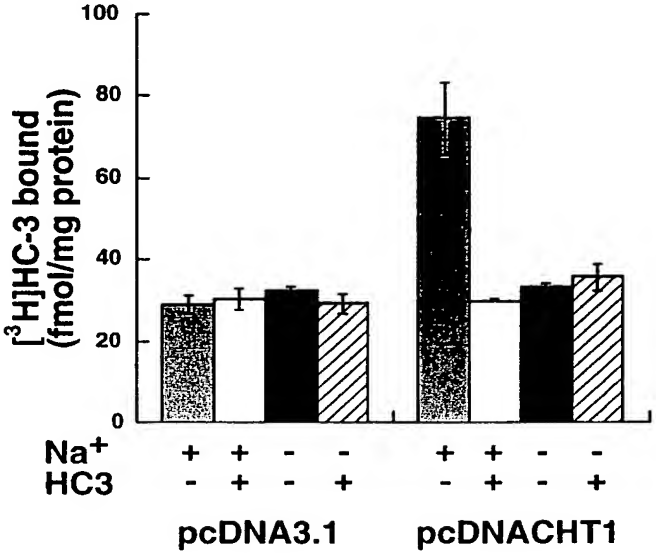
100
80
60
40
20
0
[3H]HC-3 bound
(fmol/mg protein)
Na+ + + - - + + - -
HC3 - + - + - + - +
pcDNA3.1
pcDNACHT1

Fig. 16

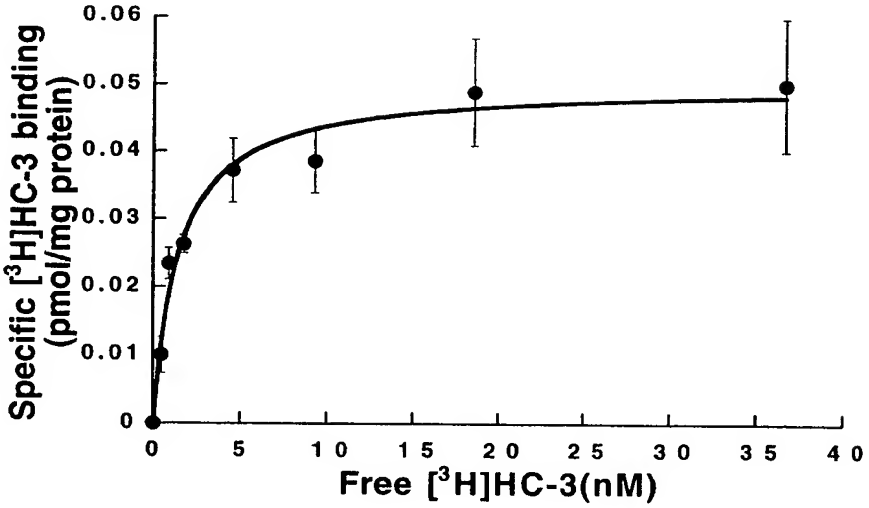
0.06
0.05
0.04
0.03
0.02
0.01
0
Specific [3H]HC-3 binding
(pmol/mg protein)
0 5 10 15 20 25 30 35 40
Free [3H]HC-3(nM)

Fig. 17